|          |            |                |           |         |                 |              |          |              |                              |           |               |            |               | 0                | 09/463,001 |           |                |              |  |          |         |         |            |          | THORPE ET AL. |                 |                |           |           |        |          |          |                 |          |
|----------|------------|----------------|-----------|---------|-----------------|--------------|----------|--------------|------------------------------|-----------|---------------|------------|---------------|------------------|------------|-----------|----------------|--------------|--|----------|---------|---------|------------|----------|---------------|-----------------|----------------|-----------|-----------|--------|----------|----------|-----------------|----------|
|          |            |                |           |         |                 |              |          |              |                              |           |               |            | Examiner      |                  |            |           |                |              |  |          |         |         | Art Unit   |          |               |                 |                |           |           |        |          |          |                 |          |
|          |            |                |           |         |                 |              |          |              |                              |           |               |            | Ula C Ruddock |                  |            |           |                |              |  |          |         |         | 1771       |          |               |                 |                |           |           |        |          |          |                 |          |
|          |            |                |           |         |                 |              |          |              |                              |           |               |            |               |                  |            |           |                |              |  |          |         |         |            |          |               |                 |                |           | _         |        |          |          |                 |          |
|          | √ Rejected |                |           |         |                 |              |          | -            | (Through numer:<br>Cancelled |           |               |            |               | al)              |            |           | N              | No           | Non-Elected                              |          |         |         | A          | Appeal   |               |                 |                |           |           |        |          |          |                 |          |
|          |            |                |           | Allowed |                 |              | -        | •            | Restricted                   |           |               |            | $\dashv$      | $\dashv$         | ł          |           | Interference   |              |  |          | 0       |         |            |          |               |                 |                |           |           |        |          |          |                 |          |
|          | = Allowed  |                |           |         |                 |              |          | Ľ            |                              |           | 7,050,000     |            |               |                  |            |           |                | Į            | Interience                               |          |         |         |            | Objected |               |                 |                |           |           |        |          |          |                 |          |
| F        | Claim      |                |           | Date    |                 |              |          |              | _                            | <u> </u>  | 7:            | Claim      |               |                  |            | Dat       |                |              | _  |          |         |         | CI         | aim      |               | _               | _              | Da        | ite       | _      | _        | _        | ]               |          |
| -        | Final      | Original       | 6/27/04   |         |                 |              |          |              |                              |           |               | 3          | E I           | Original         | 6/27/04    |           |                |              |  |          |         |         |            | Final    | Original      |                 |                |           |           |        |          |          |                 |          |
|          | и          | ŏ              | à         |         | Ш               |              |          |              |                              |           |               | ٦          | _             |                  | 9          |           |                |              |  |          |         |         |            | 11       | δ             |                 |                |           |           |        |          |          |                 |          |
|          |            | 1              | $\vdash$  | L       | $\vdash$        | -            | $\dashv$ | +            | +                            | +         | -             | -          | 4             | 51<br>(52)       | 4          | Н         |                | +            | $\dashv$                                 | 4        | +       | +       |            |          | 101           |                 | -              | +         | Ŧ         | Ŧ      | F        | F        | F               | 1        |
|          |            | 3              |           |         |                 | $\exists$    | 1        | $\downarrow$ | #                            | 1         | _             |            | $\neg$        | 53               | 1          |           |                | $\exists$    | $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ | ユ        | $\bot$  |         |            |          | 103           | $\square$       | 寸              | $\pm$     | 土         |        |          |          | 上               | <u> </u> |
| - }      |            | 1              | Н         | H       | H               | -            | $\dashv$ | +            | +                            | +         | -             | <u> </u>   |               | <u>54)</u><br>55 | 7          | Н         | $\blacksquare$ | $\dashv$     | +  | +        | +       | +       |            |          | 104<br>105    | Н               | +              | +         | +         | +      | ╀        | $\vdash$ | F               |          |
|          |            | 8              |           |         | $\Box$          | $\exists$    | $\Box$   | 士            | #                            | 士         | ן "           |            |               | 56               |            |           |                |              | I  | 1        | 土       | 土       |            |          | 106           | П               | 1              | $\pm$     | 土         |        |          | $\perp$  |                 |          |
| -        | -          | 8              | H         | _       | $\vdash$        | -            | +        | +            | -                            | +         | -             | $\vdash$   |               | 57<br>58         | Н          | Н         | _              | $\dashv$     | +  | 4        | _       | $\bot$  |            |          | 107<br>108    |                 | _              | 4         | $\bot$    |        | L        |          | F               | ļ        |
| t        |            | 9              | Н         | -       | ╂╌╂             | +            | +        | $\dagger$    | +                            | ╁         | 7             | -          |               | 59               | Н          | $\dashv$  | $\dashv$       | +            | +  | +        | +       | +       |            |          | 109           | Н               | $\dashv$       | +         | ╁         | +      | ╁        | ╀        | -               |          |
|          |            | (10)           |           |         | П               | $\Box$       | $\Box$   | 4            | I                            | 1         |               |            |               | 60               |            |           |                | $\Box$       | 1  | 1        | 1       |         |            |          | 110           |                 | $\Box$         |           | 工         | 上      |          |          |                 | j        |
|          |            | 11             | 7         |         | ╁               | +            | +        | +            | +                            | +         | -             | -          |               | 61<br>62         | $\dashv$   | -         | $\dashv$       | $\dashv$     | +  | +        | +       | ╁       | ()<br>1 () |          | 111           | $\vdash \vdash$ | +              | +         | +         | -      | ╀        | ┡        | L               |          |
| t        |            | 18             |           |         | 口               |              | 1        | 土            | 1                            | 1         |               |            |               | 63               |            |           |                | $\perp$      | $\top$                                   | 1        | 士       | $\perp$ | ***        |          | 113           | Н               | +              | 十         | 十         | +      |          | H        | ┝               |          |
| -        |            | (14)<br>15     | 4         |         | $\Box$          | 4            | 7        | 4            | 7                            | 4         | 7             | Г          |               | 64               |            |           | $\neg$         | $\downarrow$ | $\downarrow$                             | 4        | $\perp$ | T       |            |          | 114           | П               | 7              | T         | 1         | 工      |          |          |                 |          |
| ŀ        |            | 16             | Ť         | _       | H               | $\dashv$     | $\dashv$ | +            | +                            | +         | -             | $\vdash$   |               | 65<br>66         | Н          | $\dashv$  | -              | +            | +  | $\dashv$ | ╁       | ╫       |            |          | 115<br>116    | Н               | +              | ╫         | ╁         | ╁      | H        | ╁-       | Н               |          |
| ļ        |            | 17             | 7         | _       | 口               | #            | 1        | 丰            | #                            | 1         | ]             |            | $\exists$     | 67               |            |           | コ              | $\perp$      | 士  | 1        |         | 土       |            |          | 117           |                 | $\perp$        | 土         | 土         |        |          |          |                 |          |
| -        |            | 18<br>19       | 77        | _       | ₩               | +            | +        | +            | +                            |           | - :::         | <b> </b> - |               | 68<br>69         | Н          | $\dashv$  | 4              | 4            | +  | 4        | +       | ╀       |            |          | 118           | Н               | 4              | 1         | $\perp$   | $\bot$ | L        |          |                 | į        |
| t        | _          | 20             | Ì         |         | $\Box$          | +            | +        | +            | +                            | +         | ا:::          | $\vdash$   |               | 70               |            | $\dashv$  | ᅦ              | +            | +  | +        | +       | +       |            |          | 119<br>120    | $\vdash$        | +              | ╫         | +         | ╁      | $\vdash$ | ┝        | $\vdash$        |          |
| - [      |            | 27             |           |         | П               | $\Box$       | 1        | 1            | 1                            | Ţ         |               |            |               | 71               |            |           |                | 1            | I  | $\top$   | $\bot$  | 1       |            |          | 121           | $\Box$          | $\perp$        |           | Ţ         |        |          |          |                 |          |
| }        |            | 22             | 7         | _       | Н               | $\dashv$     | $\dashv$ | ╫            | ╫                            | +         | -             | -          |               | 72<br>73         | Н          | $\dashv$  | $\dashv$       | +            | ╀  | +        | +       | +       |            |          | 122<br>123    | H               | +              | +         | ╀         | ╀      | ┞        | -        |                 |          |
| t        |            | 24             | V         |         |                 | 1            | 1        | 士            | $\perp$                      | $\dagger$ | <b> </b>  ::: | $\vdash$   | Т             | 74               |            | $\exists$ | 1              | +            | +  | $\dashv$ | +       | +       |            |          | 124           | H               | +              | +         | +         | +-     | ╁        | ╁╴       | H               |          |
|          |            | <b>25</b>      | 77        | _       | П               | $\dashv$     | 4        | Ţ            | Ţ                            | $\bot$    | 7:::          |            |               | 75               |            | $\Box$    | $\Box$         | 1            | 7  | 1        | Ŧ       |         |            |          | 125           |                 | 1              |           | I         |        |          |          |                 | ·        |
| }        |            | 26<br>27       | 7         | _       | H               | +            | +        | ╀            | +                            | +         | - *           | $\vdash$   |               | 76<br>77         | $\dashv$   | $\dashv$  | $\dashv$       | +            | +  | +        | +       | +       |            |          | 126<br>127    | $\vdash$        | +              | +-        | +         | ╀      | ┝        | ⊢        | $\vdash$        |          |
| į        |            | 28             |           |         |                 | 1            | 1        |              | 1                            | 1         | ייינֶר        |            |               | 78               |            |           |                | 1            | Ì  | $\pm$    | $\pm$   |         |            |          | 128           | Н               | _              | $\top$    | $\dagger$ | +      | +        | 1        | H               |          |
| ŀ        |            | 28<br>29<br>30 |           | _       | $\sqcup$        | 1            | 4        | 4            | $\perp$                      | 1         | 7             |            |               | 79               | $\Box$     | $\Box$    | 4              | 4            | 4  | 4        | T       | T       | ,          |          | 129           | П               | 1              |           | I         |        | L        | Е        |                 |          |
|          |            | 37 70          | $\dashv$  |         | H               | $\dashv$     | +        | +            | +                            | +         | -             | $\vdash$   |               | 80<br>81         | $\dashv$   | $\dashv$  | $\dashv$       | +            | +  | +        | ╅       | +       |            |          | 130<br>131    | $\vdash \vdash$ | +              | +         | ╀         | ╀      | ┝        | -        | $\vdash$        |          |
|          |            | 32             |           | _       |                 | 1            | 土        | 士            | I                            | 士         | <u>'</u>      |            |               | 82               |            |           |                |              | 1  | 1        | 1       | 1       |            |          | 132           | H               | $\dagger$      | $\dagger$ | +         | +-     | H        | -        | Н               |          |
| -        |            | 13 (S)         | _         |         |                 | 4            | 4        | 1            | 1                            | 1         | ]::::         |            |               | B3               | $\exists$  |           | $\dashv$       | 7            | 7  | $\mp$    | $\bot$  | F       |            |          | 133           | $\Box$          | $\blacksquare$ |           | I         | oxdot  |          |          |                 |          |
| -        | $\dashv$   | 3              | 7         | _       | $\vdash$        | +            | +        | - -          | +                            | +         | -∤ . ˈ        | ⊢          |               | 84<br>85         | $\dashv$   | $\dashv$  | $\dashv$       | +            | +  | +        | +       | Н       | }          |          | 134<br>135    | Н               | +              | +         | ╄         | +      | ⊢        | H        | Н               |          |
|          |            | 36             |           | _       |                 | 1            | 士        | 1            | 土                            | 1         | <b>]</b>      |            | $\perp$       | 86               |            |           |                |              | $^{\dagger}$                             | $\perp$  | 1       |         |            |          | 136           |                 | 1              |           | t         | 1      |          |          | Н               |          |
| <u> </u> |            | 37             | $\dashv$  |         | Н               | 4            | +        | 1            | $\perp$                      | 1         | -             | L          |               | 87               | $\dashv$   | $\Box$    |                | 1            | 1  | 4        | 1       |         |            |          | 137           |                 | $\perp$        |           | L         |        |          |          |                 |          |
| -        | $\dashv$   | 38<br>39       | $\dashv$  |         | ╁               | +            | +        | +            | ╫                            | ╫         | -             | ├          |               | 88<br>89         | -          | $\dashv$  | -              | +            | ╅  | +        | +       |         |            |          | 138<br>139    | $\vdash$        | ╫              | +         | ╀         | ╁      | ⊢        | _        | Н               |          |
|          |            | 4D             | ╛         |         |                 |              | 1        |              | 土                            | 土         |               |            | Т             | 90               |            |           | 1              | 1            | 1  | $\pm$    | 士       | Н       |            |          | 140           |                 | 十              | 十         | +         | +      | $\vdash$ |          | Н               |          |
|          | _          | (D)            |           |         | Н               | $\downarrow$ | $\bot$   | $\perp$      | $\bot$                       | Ŧ         | ]             |            |               | 91               | $\Box$     | $\dashv$  | _              | Ŧ            | Ţ  | Ţ        | $\mp$   | $\Box$  |            |          | 141           |                 | 7              | I         | I         |        |          |          |                 |          |
| <br>     |            | 42<br>43       | 1         |         | ╁               | +            | +        | +            | +                            | +         | -             | $\vdash$   |               | 92<br>93         | +          | $\dashv$  | $\dashv$       | +            | +  | +        | +       | +       |            |          | 142<br>143    | $\vdash$        | +              | +         | ╀         | ╀      | -        | Н        | $\vdash \vdash$ |          |
| Ĺ        |            | 44             | 1         |         |                 | 1            | 1        | 1            | 1                            | I         | ]             |            | T             | 94               |            | ╛         | ╛              | 土            | 土  |          | 土       |         | ë t        |          | 144           |                 | 士              | 上         | 士         | 1      | L        |          | $\Box$          |          |
| -        |            |                | 1         |         | $\vdash \vdash$ | +            | +        | +            | +                            | +         | 1             | <u> </u>   |               | 95               | 1          | $\dashv$  | 4              | $\bot$       | $\perp$                                  | 4        | $\bot$  | П       | -[         |          | 145           | $\Box$          | 1              | T         | Γ         | L      | 匚        | П        | П               |          |
| <b> </b> | $\dashv$   | 47             | Ť         |         | $\vdash \vdash$ | +            | +        | +            | +                            | +         | -             | $\vdash$   |               | 96<br>97         | +          | $\dashv$  | +              | +            | +  | +        | +       | H       | }          |          | 146           | +               | +              | ╁         | ╀         | ╁      | $\vdash$ | $\vdash$ | Н               |          |
| ļ        | $\Box$     | 48             | 7         |         | $\Box$          | I            | 1        | 1            | I                            | 1         |               |            |               | 98               |            | 丁         | 士              | 土            | 土  | 土        | 上       | 口       |            |          | 148           |                 | 土              | 土         | T         | T      |          | H        | $\Box$          |          |
| }-       | _          | 49)<br>50      | 1         | _       | - -             | +            | +        | +            | +                            | F         | -∤``          | $\vdash$   | 4             | 99               | 4          | 7         | 7              | Ţ            | Ŧ  | $\bot$   | Ţ       | $\Box$  | F          | $\Box$   | 149           | $\dashv$        | Ŧ              | T         | Г         | F      |          | П        | 口               |          |
| L        | 1          | JU             | <u>'l</u> |         | ╙               |              |          |              | ┸                            |           |               | <u> </u>   |               | 00               |            | L         | L              |              |  | 1        |         | $\perp$ | ii .L      |          | 150           |                 |                | L         | 1         | 1      |          | ıl       | 1 1             |          |

Application No.

Applicant(s)